



Metal Finishing Systems

Birchwood Laboratories, Inc.
7900 Fuller Road
Eden Prairie, MN 55344 USA
Tel: 952/937-7931
Fax: 952/937-7979
www.birchwoodcasey.com

SAFE PREP® Surface Conditioner

Operating Instructions

PRODUCT DESCRIPTION

SAFE PREP® Surface Conditioner is a special acid activator that prepares the surface of iron and steel parts prior to blackening in PRESTO BLACK® room temperature blackening process. Supplied as a liquid concentrate, SAFE PREP concentrate is mixed with water and operates at room temperature to coat the metal surface with a thin, gray primer coating that prepares it for blackening.

OPERATING CONDITIONS

Initial Bath Makeup	10% by volume; Room Temperature operation.
Equipment Construction	Plastic or acid-proof materials.
Ventilation	None required. No fumes.

PARTS PROCESSING GUIDELINES

SAFE PREP surface conditioner is used as part of a multi-step blackening process, as follows:

1. CLEAN parts in PRESTO KLEEN® HP alkaline cleaner, 150° F; 8 minute soak.
2. RINSE in clean tap water; 30 seconds.
3. PRIME/CONDITION SURFACE in SAFE PREP® solution, Room temp; 1-2 minutes.
4. RINSE in clean tap water; 30 seconds.
5. BLACKEN in PRESTO BLACK solution; Room Temp; 1-3 minutes or until parts are uniformly gray/black in color.
6. RINSE in clean tap water; 30 seconds.
7. SEAL in DRI TOUCH® AMBER IRP2 non-tacky rust preventive for a soft, waxy finish.
Or, in SHEATH® RB1 oil for a slightly oily finish. Allow parts to drain and dry.

BATH MAINTENANCE

The SAFE PREP solution can be maintained by testing with the CCK Color Change Kit, available from BIRCHWOOD CASEY, to determine bath strength and proper additions. Regular replenishment with fresh concentrate will keep the bath operating normally. As it works, the bath will slowly absorb iron from the parts being processed and will change from a green color to a yellowish color. At this point, the bath should be changed and re-mixed, for best results. Usually, the SAFE PREP bath will last for about 3-6 months in normal conditions.

PACKAGING & STORAGE

1 gallon, 5 gallon and 55 gallon plastic, non-returnable containers. Store in closed containers.

Before Using This Product – Please Read, Understand and Follow all the Precautions Shown on the Product Label and on the Material Safety Data Sheet.

The Material Safety Data Sheet can be found on our website: www.birchwoodcasey.com

Always Apply Appropriate Labels to any Container used to Store or Apply this Product.

NOTE: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Birchwood Laboratories, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, Birchwood Laboratories, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

SAFE PREP® Surface Conditioner
©Birchwood Laboratories, Inc.
October 2010

(Product Numbers 600050, 600051, 60058)